

Serial No. : 09/895,558
Filed : June 30, 2001

a sealing element which can be actuated by the clapper armature and which co-operates with the first valve seat;

wherein the yoke has yoke pins and the clapper armature is pivotally and magnetically connected with one of the yoke pins at one end thereof that is remote from the sealing element while another yoke pin engages with another end of the clapper armature that is proximal to the sealing element.

A2
cont
2. (Amended) A solenoid valve according to claim 1, wherein the valve housing is formed in one piece.

3. (Amended) A solenoid valve according to claim 1, wherein the coil is wound directly onto the valve housing.

4. (Amended) A solenoid valve according to claim 1, wherein the clapper armature is guided through the coil.

5. (Amended) A solenoid valve according to claim 1, wherein the clapper armature is arranged in the fluid region.

6. (Amended) A solenoid valve according to claim 1, wherein the clapper armature is of shell-like form in the region of the arrangement thereof on the yoke pin.

7. (Amended) A solenoid valve according to claim 1, wherein the clapper armature is pressed onto the yoke pin by means of a spring.

8. (Amended) A solenoid valve according to claim 1, wherein the first valve seat is pressed into the valve housing and, to compensate for manufacturing tolerances, the first valve seat is

Serial No. : 09/895,558
Filed : June 30, 2001

adjustable in terms of relative position thereof to the clapper armature by pressing in the valve seat.

A2
cont
9. (Amended) A solenoid valve according to claim 1, wherein a first resilient element is provided and acts on the sealing element for closing the first valve seat by the sealing element.

10. (Amended) A solenoid valve according to claim 1, wherein a second resilient element is provided and acts on the sealing element, which co-operates with the clapper armature, for raising the sealing element from the first valve seat.

11. (Amended) A solenoid valve according to claim 1, wherein a first resilient element is provided and acts on the sealing element for closing the first valve seat by the sealing element, the first resilient element and the electromagnet co-operating in such a manner that, when the electromagnet is excited, the sealing element is lifted away from the first valve seat and, when the electromagnet is not excited, the sealing element comes into closing contact with the first valve seat owing to the force of the first resilient element.

12. (Amended) A solenoid valve according to claim 1, wherein a second valve seat is provided and co-operates with the sealing element which can be actuated by the clapper armature.

13. (Amended) A solenoid valve according to claim 1, wherein two valve seats which are pressed into the valve housing are provided, the sealing element which can be actuated by the clapper armature being arranged between the two valve seats and the

Serial No. : 09/895,558
Filed : June 30, 2001

relative position of the valve seats to each other and to the clapper armature being adjustable by pressing in the valve seats.

A2
C642
14. (Amended) A solenoid valve according to claim 1, wherein
a first resilient element is provided and acts on the sealing element for closing the first valve seat by the sealing element,

the first resilient element and the electromagnet co-operate in such a manner that, when the electromagnet is excited, the sealing element is lifted away from the first valve seat and, when the electromagnet is not excited, the sealing element comes into closing contact with the first valve seat owing to force of the first resilient element,

a second valve seat is provided and co-operates with the sealing element which can be actuated by the clapper armature, and

the first and the second resilient element and the electromagnet co-operate in such a manner that, when the electromagnet is excited, the force of the first resilient element is counteracted by the clapper armature and the sealing element is moved into closing contact with the second valve seat owing to force of the second resilient element and, when the electromagnet is not excited, the sealing element comes into closing contact with the first valve seat owing to the force of the first resilient element.